

Title (en)  
LOOSE TUBE OPTICAL CABLE

Title (de)  
OPTISCHES KABEL MIT LOSEN HOHLADERN

Title (fr)  
CABLE OPTIQUE A TUBES ASSEMBLES

Publication  
**EP 1597619 A4 20060705 (EN)**

Application  
**EP 03715810 A 20030408**

Priority  
• KR 0300696 W 20030408  
• KR 20030011768 A 20030225

Abstract (en)  
[origin: WO2004077120A1] Disclosed is a loose tube optical cable, which includes at most four cable aggregation units longitudinally twisted in contact with a central tensile member and having a loose tube optical fiber unit or inclusion, a cable coating for longitudinally surrounding a cable core aggregation having the central tensile member and the cable aggregation units, and one selected from the group consisting of a fibered tension-reinforcing member for surrounding the cable core aggregation, a wired tension-reinforcing member and a ring-shaped tension-reinforcing member formed in the cable coating. This loose tube optical cable has a compact structure by excluding unnecessary inclusion, thereby decreasing the outer diameter and the weight thereof. In addition, since the central tensile member and the tension-reinforcing member are not twisted with the cable aggregation units, tensile stress may be minimized in the optical cable.

IPC 1-7  
**G02B 6/44**

IPC 8 full level  
**G02B 6/44** (2006.01)

CPC (source: EP KR US)  
**G02B 6/44** (2013.01 - KR); **G02B 6/441** (2013.01 - EP US); **G02B 6/4432** (2013.01 - EP US); **G02B 6/4433** (2013.01 - EP US)

Citation (search report)  
• [X] US 2002009272 A1 20020124 - PARRIS DONALD R [US]  
• [X] US 5325457 A 19940628 - BOTTOMS JR JACK [US], et al  
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• [A] WO 0114922 A1 20010301 - PIRELLI CAVI E SISTEMI SPA [IT], et al  
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• See references of WO 2004077120A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004077120 A1 20040910**; AU 2003219585 A1 20040917; CN 1745323 A 20060308; EG 23515 A 20060315; EP 1597619 A1 20051123; EP 1597619 A4 20060705; JP 2006514333 A 20060427; KR 100492957 B1 20050602; KR 20040076425 A 20040901; US 2006072886 A1 20060406

DOCDB simple family (application)  
**KR 0300696 W 20030408**; AU 2003219585 A 20030408; CN 03826019 A 20030408; EG 2003100968 A 20031008; EP 03715810 A 20030408; JP 2004568789 A 20030408; KR 20030011768 A 20030225; US 53648705 A 20050524